Brian Luu

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Education

University of California, Irvine   Expected June 2027

Bachelor of Science in Aerospace Engineering

GPA – 3.748

Projects

Solar Car Aerobody – ucisolarcar.org   Sep 2024 – Present

- Collaborated with a team of 9 to design and manufacture Solar Car's aeroshell in time for competition
- Fabricated the aeroshell through a fiberglass-epoxy layup, achieving a weight of 1.08 grams per sq/in
- Developed G-code for a CNC mill to cut out the male plug for composite work
- Achieved a 20% weight reduction in side shell manufacturing
- Modeled and incorporated a functional scissor-hinge into the system-level CAD assembly

SMUD YES 2022   Jan 2022 – Apr 2022

- Conceptualized solutions to reduce climate impact in local communities for a competition
- Designed street-accurate models in Autodesk Revit that promoted carbon-free transportation and safer streets
- Presented the idea to a board of professionals and demonstrated the importance of safer and non-automotive transport to reach a net-zero carbon future

Experience

Wastewater Collections Intern, City of Roseville – Roseville, CA   Jan 2023 – June 2023

- Identified and repaired several air-release valves in recycled water lines that were damaged due to rust and disrepair
- Installed cured-in-place pipe lining to reline and repair damaged sewage pipes in local neighborhoods
- Reduced average daily work order input time by 50% through workflow optimization

Campaign Phone Banker, Brennand Consulting – Sacramento, CA   May 2022 – June 2022

- Convinced registered voters to vote for California representative Syndey Kamlager
- Collaborated with team to develop strategies to influence more voters to vote for Kamlager
- Informed voters find out how and where to vote
- Achieved a landslide victory with a margin of victory of 17,993 voters in California's 30th voter district

Skills

Software: Siemens NX, Solidworks 3D, Autodesk Inventor, Fusion CAM, MATLAB

Hardware: Composite Layup, 3D Printing, Laser Cutting, Power Tools